THE SIPRO END OF TERM I EXAMINATIONS 2024

SUBJECT : MATHEMATICS
CLASS : PRIMARY SIX
DURATION : 2 hours 30 minutes

Name : _____
School : _____
District : _____

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in *blue* or *black* ball point pens or ink. Only diagrams and graph work must be done in **pencil**.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any **handwriting** that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated.

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

PAGES	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
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Page 7		
Total		

Please turn over

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PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & HOLIDAY ASSIGNMENTS

SECTION A: 40 MARKS

Attempt **all** questions in this section.
Questions **1** to **20** carry **two** marks each.

1. **Work out:** $\frac{5}{7} - \frac{2}{7}$

2. Find the missing number.
$8 + \square = 14$

3. **Add;**

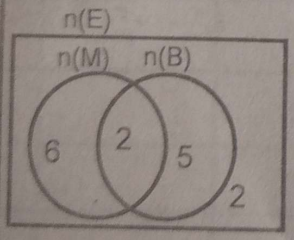
	years	months
	3	8
+	2	9

4. Without dividing, show that **708** is divisible by **3**.

5. Express **0.25** to a common simplified fraction.

6. Expand **1,079** using place values.

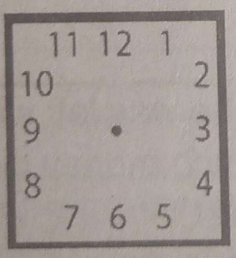
7. The venn diagram below shows guests who were served with **meat (M)** and **beans (B)**. Use it to find the probability that a guest who was served with beans said the closing prayer.



8. Tom was facing Northeast, he turned anti-clockwise through an angle of **135°**, what was his new direction?

9. Annet bought a watch at **sh.12,000** and later sold it at **sh.16,500**. Calculate Annet's profit.

10. The length of a square garden is **12dm**. Work out its perimeter.

11.	Use >, < or = to complete; -7 _____ 0	12.	**Work out;** $7\overline{)3234}$
13.	Opio bought seven Hacko rulers at **sh.18,200**. Calculate the cost of each ruler.	14.	**Work out:** $\frac{2}{5} + \frac{1}{3}$
15.	Using a pair of compasses, a pencil and a ruler only, construct an angle of **60°** in the space below.	16.	**Solve** for **K**; $2k - 3 = 7$
17.	Show **20** minutes to 5 on the clock face below; 	18.	Arrange the integers in **descending** order. -4, +2, +5, 0 and -1
19.	A carton of wheat flour contains **12** packets. Each packet contains **2kg**. How many kilograms are contained in one carton?	20.	Draw tallies to represent **24**.

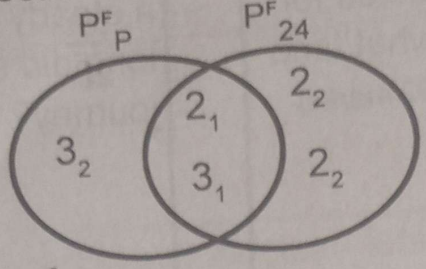
SECTION B: 60 MARKS

Attempt **all** questions in this section.

Marks for **each part** of the question are **indicated** in the brackets.

21.a)	Express **CXL** in words. *(02 marks)*	b)	Write **4205** in expanded form using exponents. *(02 marks)*
22.a)	2p and p + 30° are supplementary angles. Find the value of p. *(03 marks)*	b)	How many degrees are there in $\frac{1}{2}$ revolution? *(02 marks)*
23.	**Abdul bought the following items;** 3 textbooks at sh.5000 each book. 2kg of beans at sh.4500 per kg. 500g of salt at sh.1600 per kg. 2pens at sh.1000.		
a)	Find his total expenditure. *(04 marks)*	b)	If he was left with **sh.4200**, how much money did he have at first? *(01 mark)*

24. The venn diagram below shows prime factors of p and 24. *Use it to answer the questions that follow.*

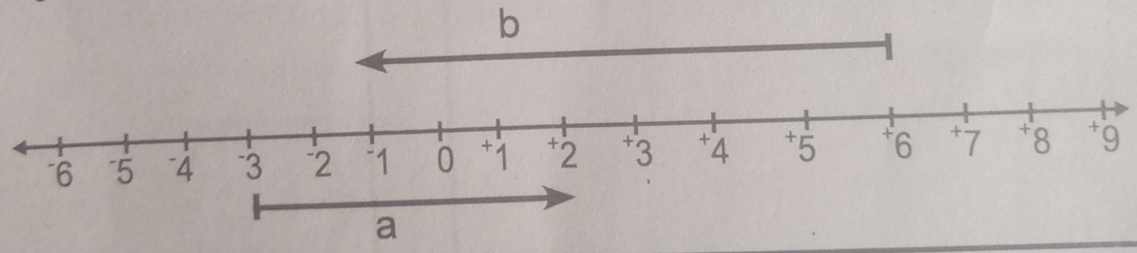


a) Find the **value** of **p**. *(02 marks)*

b) Work out the HCF of p and 24. *(02 marks)*

(c) Find the LCM of p and 24. *(02 marks)*

25. **Study the number line below and answer the questions that follow.**



a) Find the integer represented by the arrows; *(02 marks)*

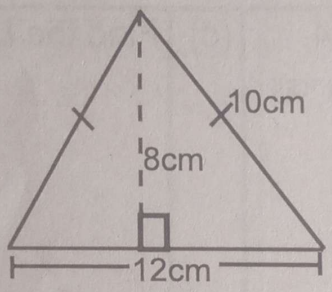
i) a =

ii) b =

b) Use <, > or = to complete correctly. *(02 marks)*

i) -3 ☐ + 3

ii) +10 ☐ -20

26.a)	A mathematics examination started at **9:20am**. If it lasted for 2 hours 30 minutes, at what time did it stop? *(02 marks)*	b)	Akello drove to cover **180km** at a steady speed of **45km/h**. How long did she take to cover the journey? *(02 marks)*
27.	**The figure below is a triangle.** *Study and use it to answer the questions that follow.* 		
a)	Find the **area** of the triangle. *(02 marks)*	b)	Work out the **perimeter** of the above figure. *(02 marks)*
28.a)	**Work out:** $\frac{2}{5} \div \frac{4}{1}$ *(02 marks)*	b)	**Simplify:** 2.7 - 1.5 + 3.6 *(02 marks)*

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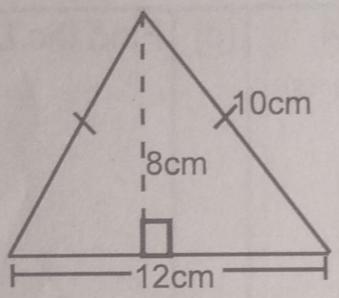
27.	**The figure below is a triangle.** *Study and use it to answer the questions that follow.* 		
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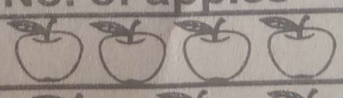
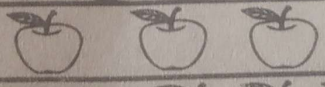
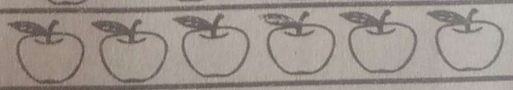
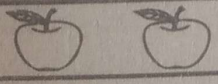
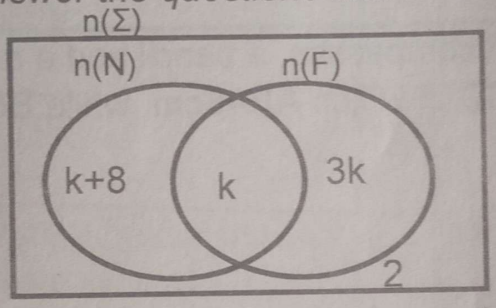
29.a) i)	**Simplify;** 3y + 5n + 2y - 2n *(02 marks)*	ii)	Given that a = -3, b = 4. **Find** ab. *(02 marks)*
b)	Babirye is **5** years older than Kiiza. If their total age is **19** years; how old is Babirye? *(02 marks)*		
30.a)	Using a pair of compasses, a pencil and a ruler only, construct a rectangle **ABCD** in which **AB=6cm**, while **BC** is **4cm**. *(05 marks)*		
b)	Measure the **length** of diagonal **AC**. *(01 mark)*		
31.	**The graph below shows the number of apples the pupils bought from the supermarket**. *Study and use it to answer the questions that follow.*		

Name	No. of apples
Betty	
Ben	
Brenda	
Bosco	

 represents 12 apples

a)	How **many** apples did Bosco buy? *(01 mark)*	b)	Which pupil bought **half** Brenda's apples? *(01 mark)*
c)	How many apples did Betty buy? *(02 marks)*	d)	How many more apples did Brenda buy than Betty? *(02 marks)*

32. The venn diagram below shows the number of pupils who like **Football (F)**, **Netball (N)**, both games and others do not like neither of the games. *Use it to answer the questions that follow.*



a) Find the value of k, given that **20** pupils play netball. *(02 marks)*

b)	Find **n(F)**. *(02 marks)*	c)	What is the probability that the head prefect likes football only? *(02 marks)*